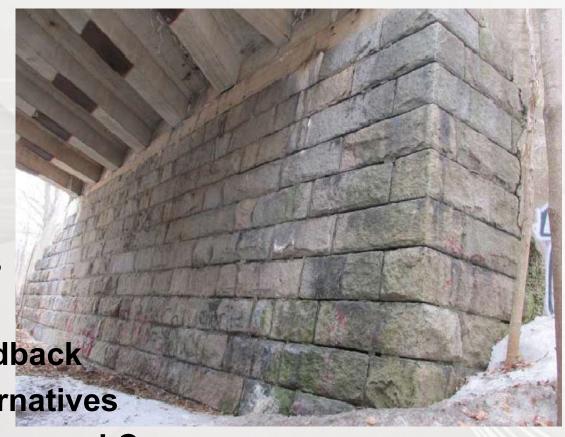




Agenda

- Location
- Background
- Existing Conditions
- Public Hearing
- Public Hearing Feedback
- North Road (E) Alternatives
- Comments, Questions and Concerns





Background

- •US Route 1 Corridor Management Study (2000)
 - Recommends realignment of North Road(s)
- Project programmed as a Bridge Rehab/Replacement
- Public Officials Meeting 3/9/2015
 - Concern from stakeholders about both North Rd approaches; Crash history; Poor sight distance; Dangerous.



- Project incorporates North Road approach work 10/19/15
- Public Informational Meeting 5/24/2017
 - •No consensus on 2.5 week closure vs. long-term phased approach on US 1
 - Concern about traffic on minor roads, loss of business revenue
- Public Hearing 10/18/2018
 - Opposition to impacts to open space for North Road (east) realignment.
 - •Property owner (Hale), abutters (Rhoades and Luv)and town voiced concerns
 - Design tasked with looking at other alternatives







Roadway Existing Conditions

- US Route 1 Typical 2-12-10-12-2
 - Minor Urban Arterial carrying 18,000 vehicles per day; Posted 45 mph
 - Two Way left turn lane; No shoulders
- North Road Typical 11-1
 - o Local Road carrying 1340 VPD (east) 970 (west); Posted 30 mph
 - Safety concerns
 - Skew and slope of the intersections create poor sight distance
 - High traffic volumes on US 1 contribute to crashes.
 - From 2007-2017
 - 13 crashes (West); 9 Crashes (East)



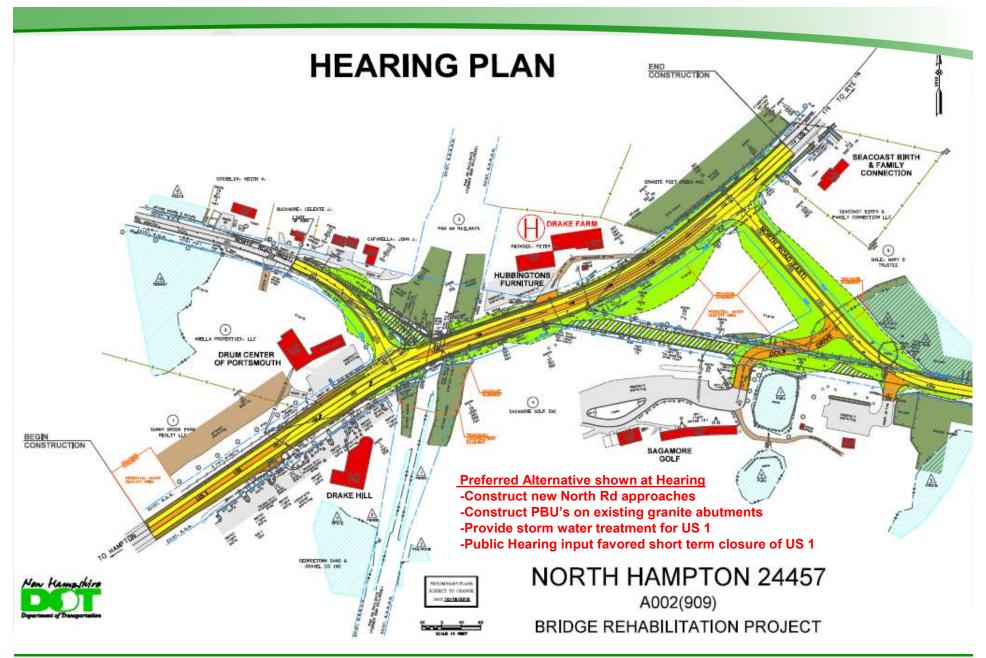


Bridge Existing Conditions

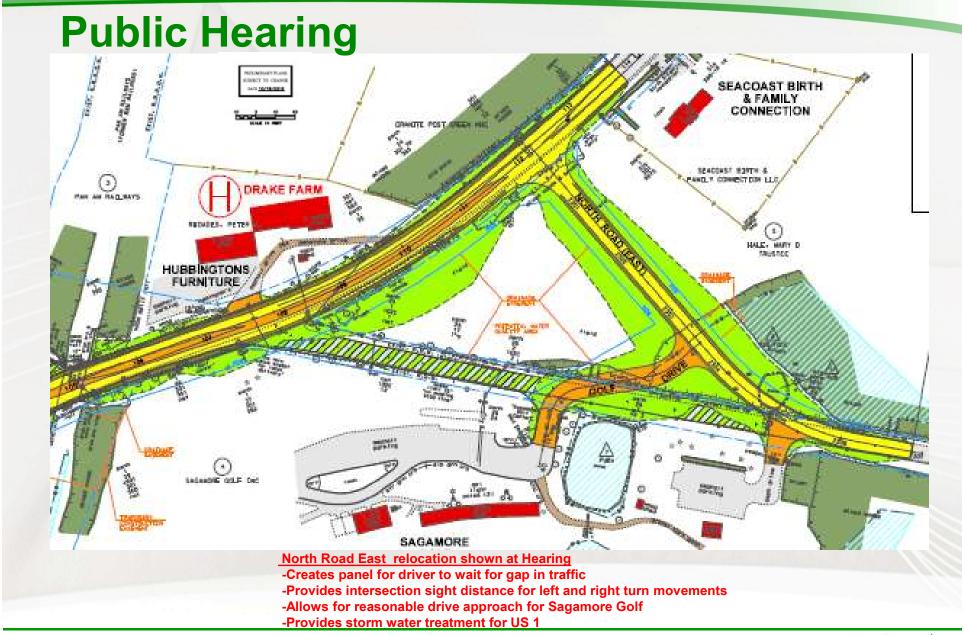
- Deteriorating –Span 40' Width 34'-47"
- Constructed 1936; designed by Robert Prowse; Red listed. #28 (2016)
- Bridge Superstructure and Deck Multiple areas of cracking, leaking, spalling, delamination, and exposed rebar.
- Bridge Rail Concrete rail on the east side of the bridge is failing
- **Bridge substructure** includes the stone abutments from the 1900 bridge that it replaced.
- The granite block abutments are in good condition and will be retained.





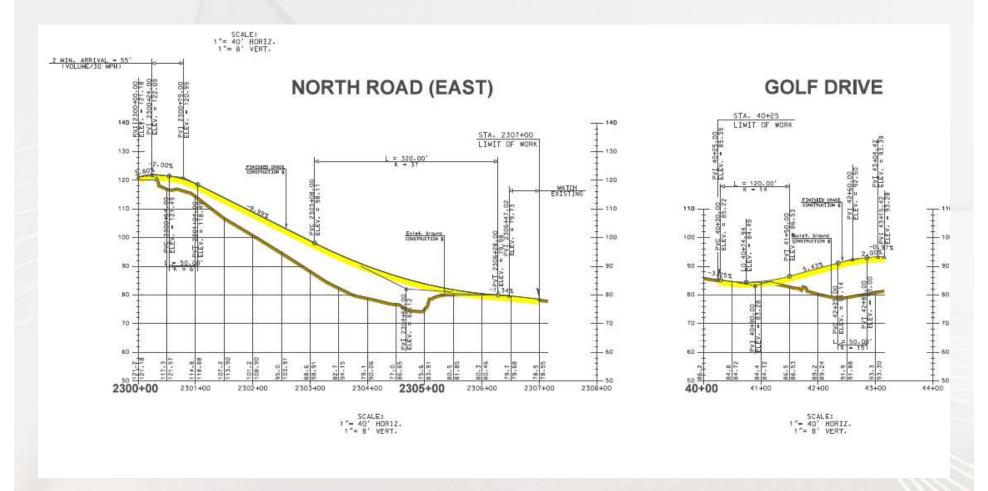








Public Hearing





Public Hearing Feedback

Request that intersection remain unchanged and a Traffic signal be installed

Intersection does not meet signal warrants presently and will not in the future design year





Public Hearing Feedback



North Road (E) proposed realignment location (as shown at Public Hearing) looking west, from North Road (E)

Stake holders at the Public Hearing raised concerns, specifically Impact to open space along US 1 along the corridor



• Conceptual alternatives were developed to minimize impacts to open space

Alternative A – Balance between cost and open space

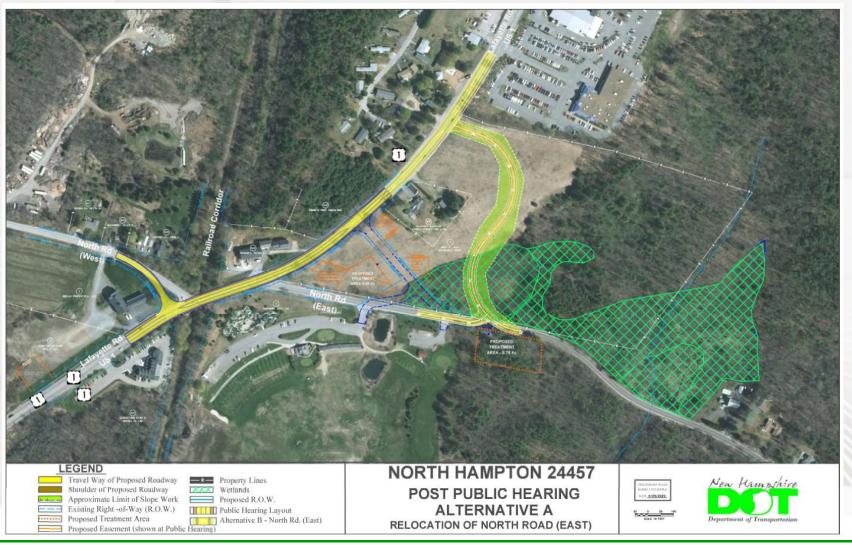
Alternative B – Maintains maximum open space

Alternative C – Maintains maximum open space



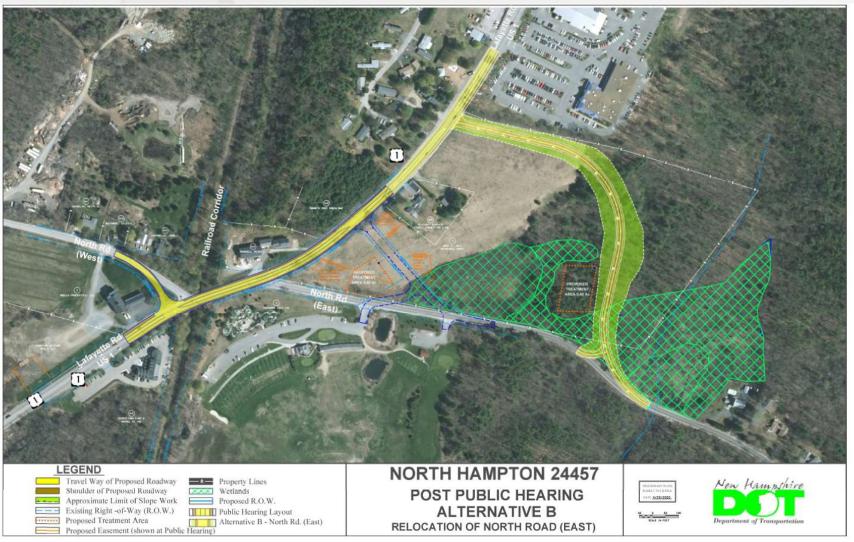


North Road (E) Alternative A



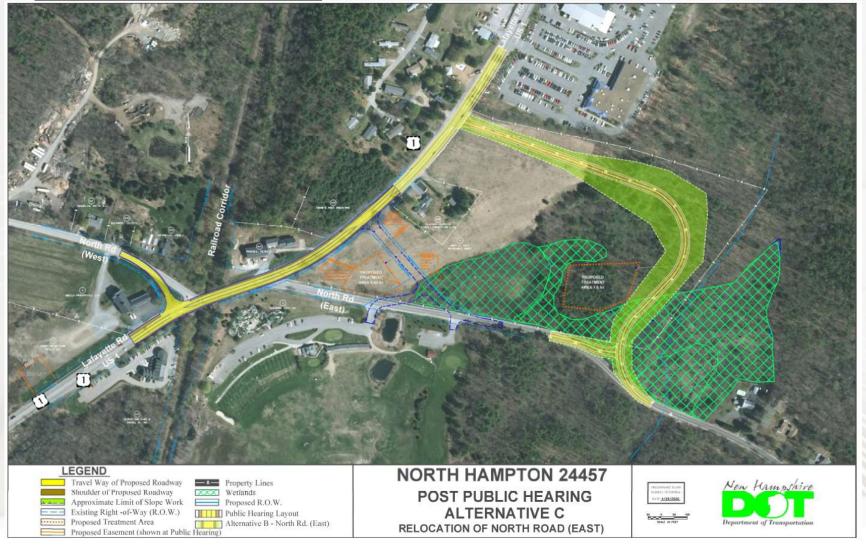


North Road (E) Alternative B





North Road (E) Alternative C





Alternatives Estimate Cost Breakdown

Estimated Construction Cost
(North Road (E) only)

Estimated Construction Cost (US Route 1 only)

Quantities and estimate based on items calculated from preliminary design layout for each alternative



Estimated Wetland Impact Costs

Impact between slope lines shown at \$250,000/Ac.

<u>Stormwater Treatment Costs</u> Quantities and estimate based on items calculated from treatment design review for each alternative

Estimated ROW Acquisition Costs

Area assumes a 50-foot ROW for new roadway at `\$18,000 / Acre



North Hampton 24457

North Road East (NRE) Alternative Matrix

				6/17/202
Consideration	NHDOT Proposed NRE Only	Alternative A	Alternative B	Alternative C
Estimated Construction Costs (NRE)	\$ 408,950.00	\$ 497,150.00	\$ 1,004,125.00	\$ 1,163,750.00
Estimated Construction Costs (US Rte 1)		\$ 230,000.00	\$ 230,000.00	\$ 230,000.00
Estimated Wetland Impact Cost (\$250,000/A)	\$ 77,500.00	\$ 150,000.00	\$ 145,000.00	\$ 217,500.00
Estimated Stormwater Treatment Cost	\$ 40,450.00	\$ 157,500.00	\$ 168,125.00	\$ 208,790.00
Estimated Total Build Cost	\$ 526,900.00	\$ 1,034,650.00	\$ 1,547,250.00	\$ 1,820,040.00
Additional Cost to current NRE proposal (Public Hearing)	s -	\$ 507,750.00	\$ 1,020,350.00	\$ 1,293,140.00
Estimated ROW Impacts	Permanent: 0.80 A Temporary: 0.44 A Treatment: 0.50 A Total: 1.74 A	Permanent: 1.26 A Temporary: 0.68 A Treatment: 0.50 A + 0.50 A Total: 2.94 A	Permanent: 1.83 A Temporary: 1.60 A Treatment: 0.50 A + 0.50 A Total: 4.43 A	Permanent: 2.06 A Temporary: 2.1 A Treatment: 1.0 A + 0.50 A Total: 5.66 A
Estimated ROW Costs	\$20,000-\$30,000	\$40,000-\$50,000	\$55,000-\$70,000	\$70,000-\$90,000

24457 Alt. Matrix.pdf



North Road (E) alternatives layout

- The matrix was developed to compare the construction cost, impact and concerns for each alternative.
- Cost for Wetland impact, Stormwater Treatment are part of the totals construction totals shown.
- The cost for the current North Road (E) relocation, as shown at the Public Hearing, is \$550,000~

Concepts	Construction Cost	ROW Acquisition	Town Match
 Alternative A Alternative B	\$1,100,000 \$1,600,000	\$50,000 \$70,000	\$ 600,000 \$1,120,000
 Alternative C 	\$1,900,000	\$90,000	\$1,440,000





